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(54) METALLOCENE COMPOUND HAVING BIS(2-SUBSTITUTED-4-PHENYL-CYCLOPENTADIENYL) LIGAND, AND ITS PRODUCTION

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain the subject compound having a high polymerization activities, and useful for a component for an olefin polymerization catalyst composition for production of an polyolefin having a high molecular weight by forming the compound out of a specific compound and an enantiomer thereof.

SOLUTION: The subject compound consists of (A) a compound of the formula (M is Ti, Zr or the like; Y is C, Si or the like; X^1 and X^2 are each a halogen or a 1-20C hydrocarbon; R^2 is a halogen, a 7-20C aralkyl or the like; R^1, and R^3 to R^7 are each H or a 1-20C alkyl or the like), [e.g. racemic-dimethylsilylene-bis(2-methyl-4-phenyl-cyclopentadienyl)zirconium clichloride], and (B) an enantiomer of the component A. The component A is obtained by reacting 1-substituted-3-phenyl-cyclopentadienyl compound with a metal salt-type base to anionize the compound, reacting the anionized compound with a cross-linking agent, reacting the product with the metal salt-type base to dianionize the compound, reacting the dianionized product with a metal halide compound to cyclize the compound by intramolecular cross-linking, and isolating the component A.